

TECHNICAL INFORMATION

[WALLCOVERINGS - REATEC]

Full installation instructions are available on the website product Downloads tab.

REATEC USE

DESCRIPTION, SIZE & COMPOSITION

Reatec is an architectural film with a pressure sensitive-adhesive with air removal system backing.
Composition: Poly Vinyl Chloride (PVC)
Width: 1.22m
Length: 50m per roll
Thickness: approx 0.2mm typical
Available by the lineal metre

TEMPERATURE FOR INSTALLATION

Lowest Temperature: 12°C
Ideal Temperature: 20°C - 25°C

FIRE RATINGS - TEST

In accordance with the Building Code of Australia (BCA) section C1.10A: Classification: Group 1
Specific Extinction: Less than 250m²/kg

DIMENSION STABILITY TEST

TEST METHOD
150 x 150mm (5.90 x 5.90 inches) of REATEC was stuck on the center of a 200 x 200mm (7.87 x 7.87 inches) aluminum panel. One cross cut was made in center. After 2 days at 65oC (149oF), the maximum gap in the cut was measured.
TEST RESULT

STAIN RESISTANCE TEST

The surface of REATEC was wiped with neutral detergent/ethyl alcohol after 24 hours contact with the following materials. No greater than 0.3mm (0.012 inches)

TEST RESULT

	REATEC
Vinegar	●
Coffee	●
Ketchup	●
Soysauce	●
Water based marker	●
Crayon	●
Hair dye	△
Permanent marker	△
Shoe polish	X

● Removed with damp cloth ● Removed with detergent △ Slightly stained X Stained

ANTI-BACTERIAL TEST

Tested Bacteria	Items for Test	Primal Consistency	Consistency after 24hrs
Colon Bacillus	TA-7301~7375	2.4 X 10 ⁵	5.6 X 10 ⁴
	Other REATEC		
Staphylococcus Aureus	TA-7301~7375	4.5 X 10 ⁵	1.8 X 10 ⁴
	Other REATEC		
MRSA	TA-7301~7375	2.4 X 10 ⁵	< 10
			7.0 X 10 ³

The Bacteria were cultivated on standard agar at 35°C (Tested by Japan Food Research Laboratories)

THERMAL DURABILITY TEST

TEST METHOD

REATEC was stuck on an aluminum panel. It was kept for 12 days and exposed to various temperatures.

TEST RESULT

No peeling or color change occurred between -30°C to +65°C

COLORFASTNESS TO LIGHT

SUNSHINE CARBON ARC LIGHTING TEST

REATEC: No change after 250 hours

ABRASION TEST

TEST METHOD

Final abrasion point by taber testing machine (wheel:CS-17, 1kg weight)

TEST RESULT

Greater than 5000 cycles

HIGH TEMPERATURE DURABILITY TEST

TEST METHOD

REATEC was stuck on an aluminum panel and kept for 28 days at 65°C

TEST RESULT

No change in adhesion.

HIGH HUMIDITY DURABILITY TEST

TEST METHOD

REATEC was stuck on an aluminum panel and kept for 28 days at 40°C RH90%.

TEST RESULT

No change

STORAGE CONDITIONS

Store the product in good condition, below 38°C avoid direct sunlight and high humidity. Use within 1 year of purchase.

ADHESION STRENGTH TEST

TEST METHOD

Width 25.4mm Length 180mm of REATEC was stuck on the following substrates. Peel REATEC off in 300mm per minute and 180° angle by using Tensilon Tensile Testing Machine, after kept for 48 hours at 20°C.

Primer was applied at 20°C, and open time was 1 hour.

TEST RESULT

s Substrate	Without Primer	With Primer
Plywood	3.20	30.10
Gypsum Board	-	7.90
Silicate Calcium Board	3.00	23.10
Melamine Baked Steel	23.90	35.20
Phosphate Bonderized Steel	24.30	35.20
PVC Coated steel	34.10	39.80
Aluminum Plate	27.10	-
Stainless Steel	25.00	-
Acrylic Board	31.40	42.10
Mortar	3.00	22.90

unit: N/25.4mm

LOW TEMPERATURE IMPACT TEST

TEST METHOD

DuPont Impact Tester 0°C 100g 1/2 inches diameter

TEST RESULT

No change

SOLVENT / CHEMICAL RESISTANCE TEST

TEST METHOD

Chemicals were dropped on the surface of REATEC and left for 6 hours. They were then washed off with water and left to dry

24 hours.

TEST RESULT

	REATEC
Petroleum Benzine	●
Ethyl Alcohol	●
N-Hexane	●
Toluene	●
Ethyl Aceta te	●
Mathylethylkeotone	
Ammonia	●
Hydrochloric Acid (10%)	●
Caustic Soda (10%)	●

● No change ● Changes in gross
△ Surface Lifting

ACUTE TOXICITY TEST (LD50)

LD50 > 20Kg (0.71oz/2.20lbs)

(Tested by Japan Food Research Laboratories)

MUTAGENICITY TEST

Negative

(Tested by Japan Food Research Laboratories)

ANTI-MOLD TEST

ASTM-G21 TEST, AT 28OC ± 2OC (82.4OF ± 35.6OF) AND OVER 95% RH

Items for test	10 Days	14 Days	21 Days	28 Days
TA-7301~TA-7375	0	0	0	0
Other REATEC	2	2	3	3

Grade 0-4

0: Mold not found

1: Under 10% of surface area

2: 10-30% of surface area

3: 31-60% of surface area

4: 61-100% of surface area

TESTED MOLDS

Aspergillus niger, Penicillium funiculosum, Chaetomium globosum, Aureobasidium pullulans, Trichoderma virens.

TEST METHOD

ASTM-G21, preservation 28°C±2°C, relative humidity 95% and above.

(Tested by Tokyo Metropolitan Industrial Technology Research Institute)

FORMALDEHYDE EMISSION GRADE

Advanced Pollution and Air Quality Chamber F**** (under 5µg/m³·2h)

Certification Number in Japan: MFN-0421v